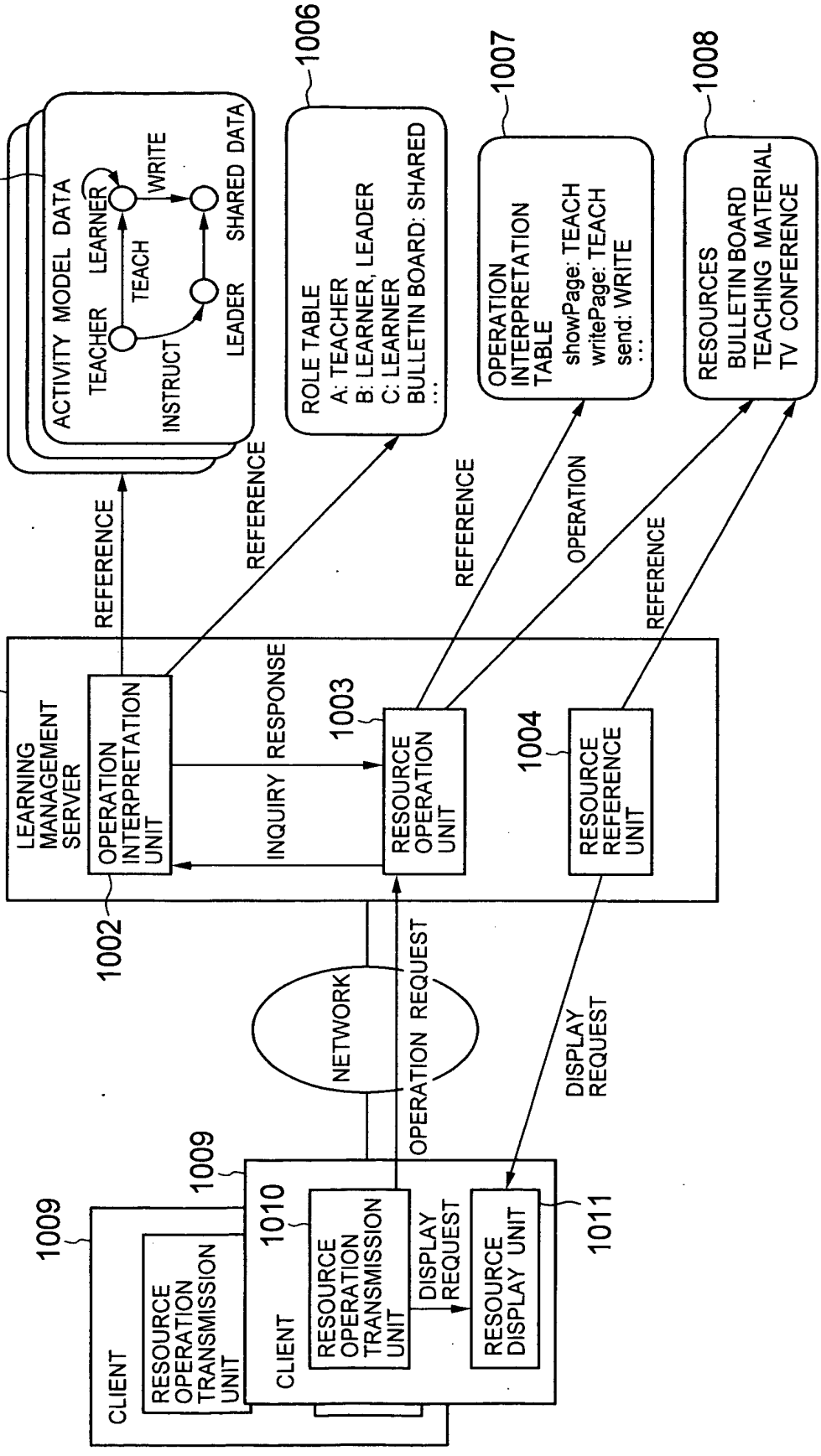
APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

20140924150057

FIG. 1



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CLASS SUBCLASS

FIG. 2

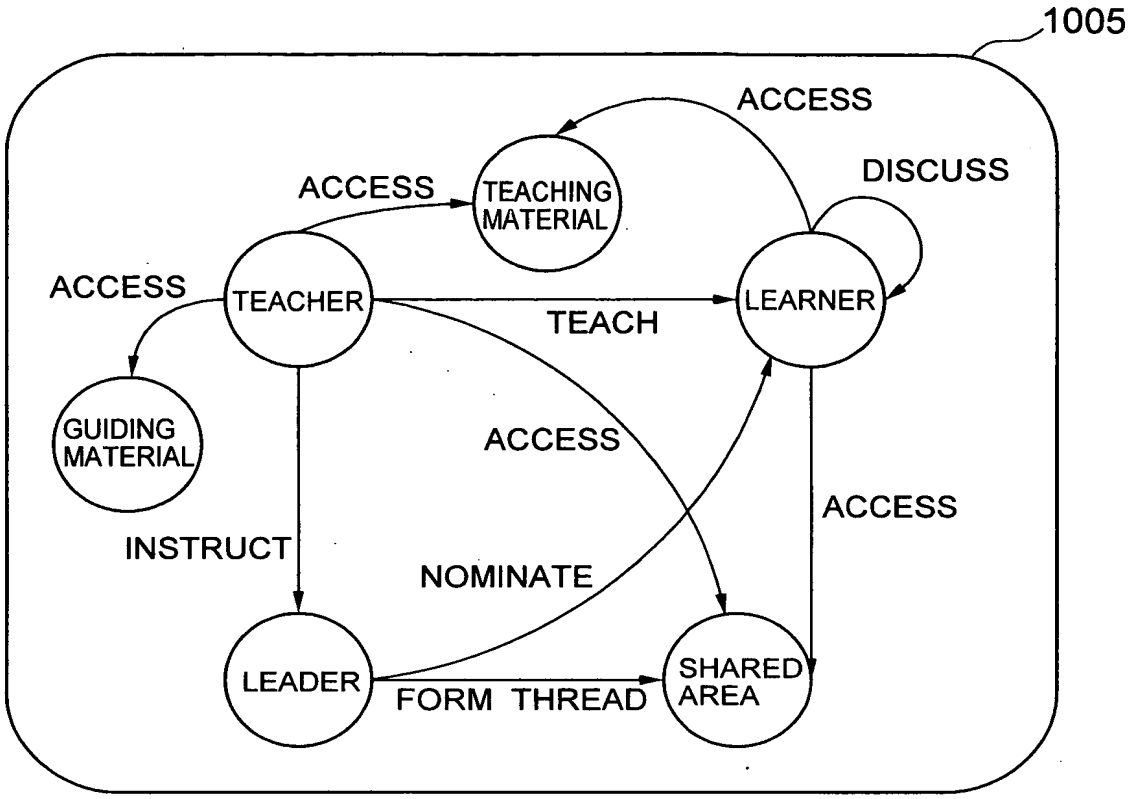

FIG. 3

1006

RESOURCE ID	ROLES OF 1ST MODEL	ROLES OF 2ND MODEL	-----
USER A	LEADER, LEARNER		
USER B	LEARNER		
USER C	LEARNER		
USER D	TEACHER		
BULLETIN BOARD	SHARED AREA		
CHAT BOARD	SHARED AREA		
-----	-----	-----	-----

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FIG. 4

1007

OPERATION PATTERN	BEHAVIOR	OBJECT LIST
WRITE(BOARD, ARTICLE)	WRITE	BOARD
WRITE TO(BOARD, ARTICLE,WHO)	DISCUSS	WHO
GET(MATERIAL)	REFER	LEARNING MATERIAL
⋮	⋮	⋮

FIG. 5

5001

BEHAVIOR NAME	SUBJECT	OBJECT LIST
TEACH	TEACHER	LEARNER
ACCESS	TEACHER	LEARNING MATERIAL
ACCESS	TEACHER	GUIDING MATERIAL
ACCESS	LEARNER	LEARNING MATERIAL
ACCESS	TEACHER	SHARED AREA
ACCESS	LEARNER	SHARED AREA
INSTRUCT	TEACHER	LEADER
NOMINATE	LEADER	LEARNER
DISCUSS	LEARNER	LEARNER
DISCUSSION THREAD CREATION	LEADER	SHARED AREA
ROLE ALLOCATION	LEADER	LEARNER TASK DATA

EP 0 954 809 A2

20TETO" 92:65007

FIG. 6

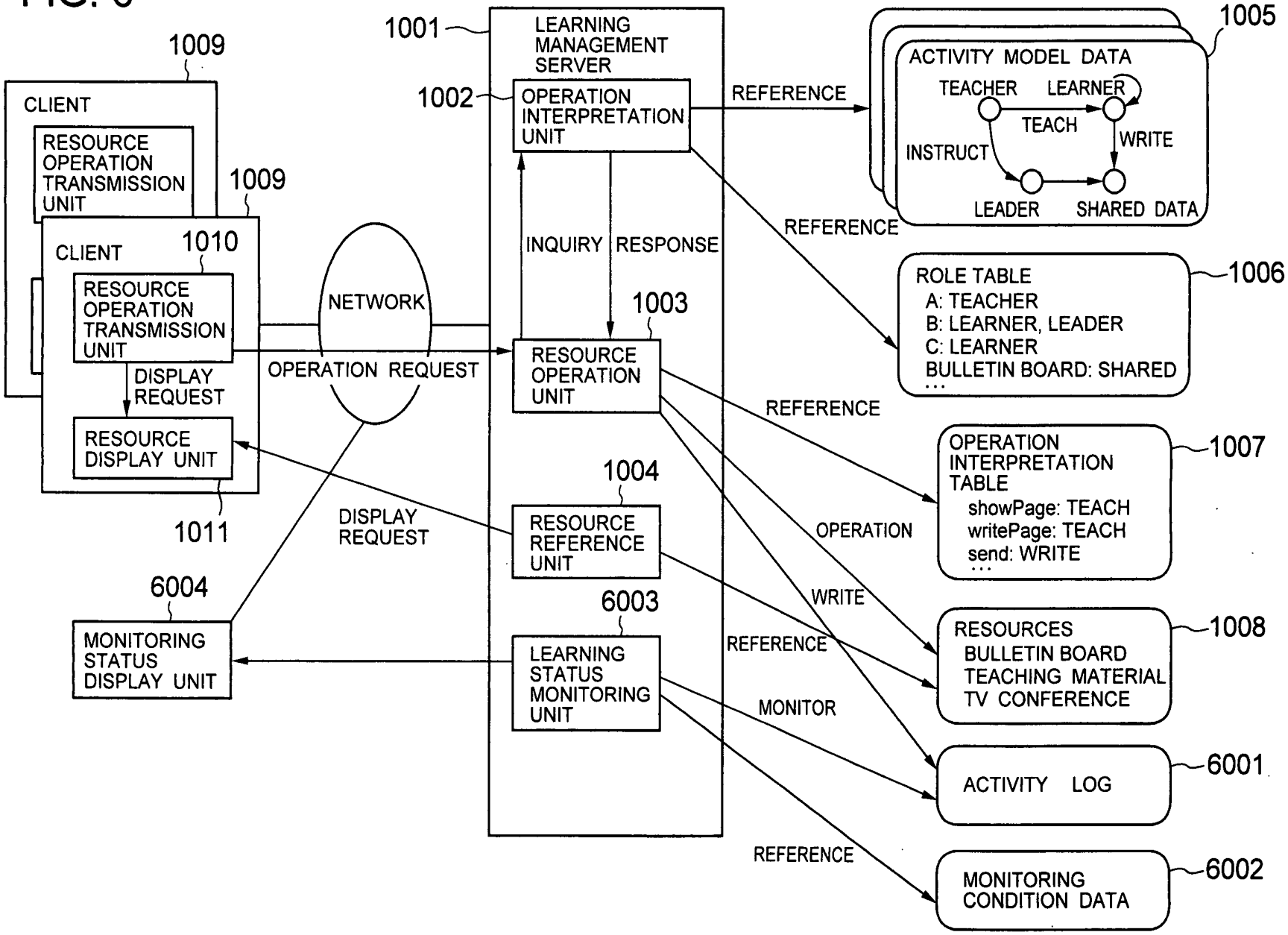

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FIG. 7

6001

BEHAVIOR NAME	SUBJECT	OBJECT LIST	COUNT	HISTORY
TEACH	TEACHER	LEARNER	1	USER D TEACHES USER B
ACCESS	TEACHER	LEARNING MATERIAL	10	---
ACCESS	TEACHER	GUIDING MATERIAL	5	---
ACCESS	LEARNER	LEARNING MATERIAL	120	---
ACCESS	TEACHER	SHARED AREA	231	---
ACCESS	LEARNER	SHARED AREA	---	---
INSTRUCT	TEACHER	LEADER	---	---
NOMINATE	LEADER	LEARNER	---	---
DISCUSS	LEARNER	LEARNER	---	---
FORM THREAD	LEADER	SHARED AREA	---	---
ROLE ALLOCATION	LEADER	LEARNER TASK DATA	---	---

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FIG. 8

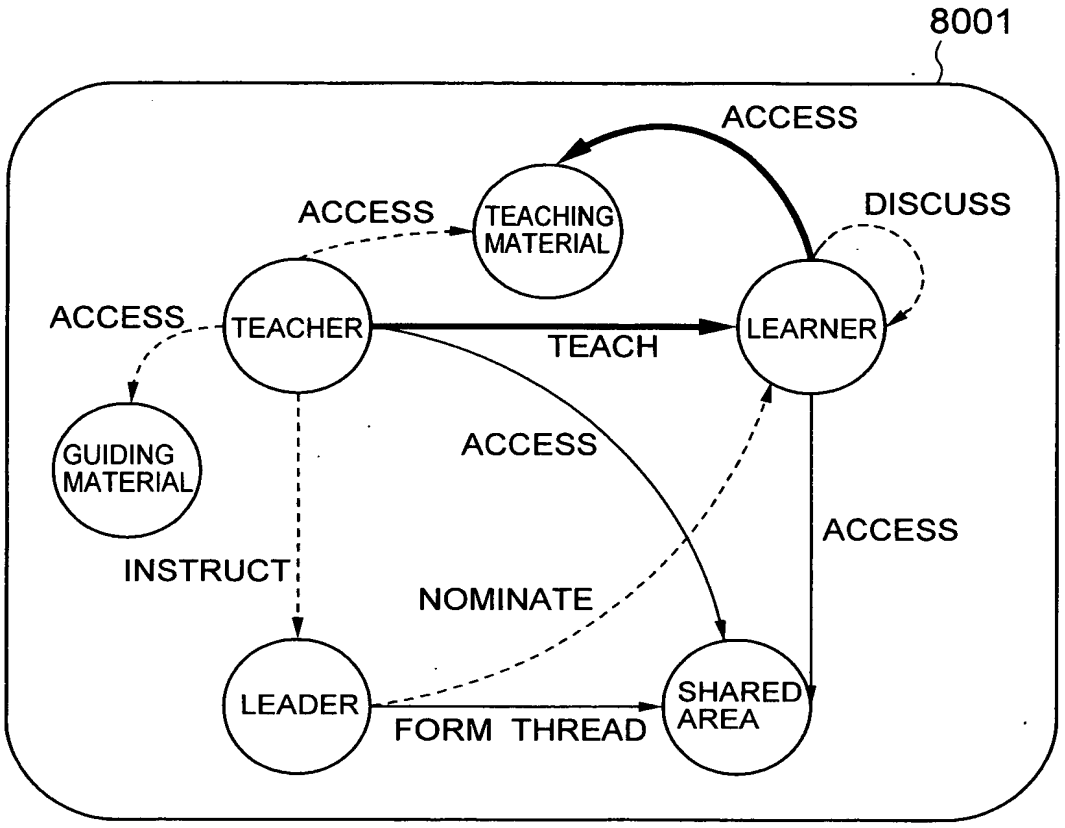


FIG. 9

9001

RESOURCE ID	ROLE	ACTIVITY STATUS
USER A	LEADER	
	LEARNER	
USER B	LEARNER	
USER C	LEARNER	
USER D	TEACHER	

FIG. 10

10001

RESOURCE ID	ROLE	MONITORING CONDITION
USER A	LEADER	LAPSE TIME > 48 H & ACTIVITY NUMBER < 10
	LEARNER	- - -
USER B	LEARNER	- - -
USER C	LEARNER	- - -
USER D	TEACHER	- - -

FIG. 11

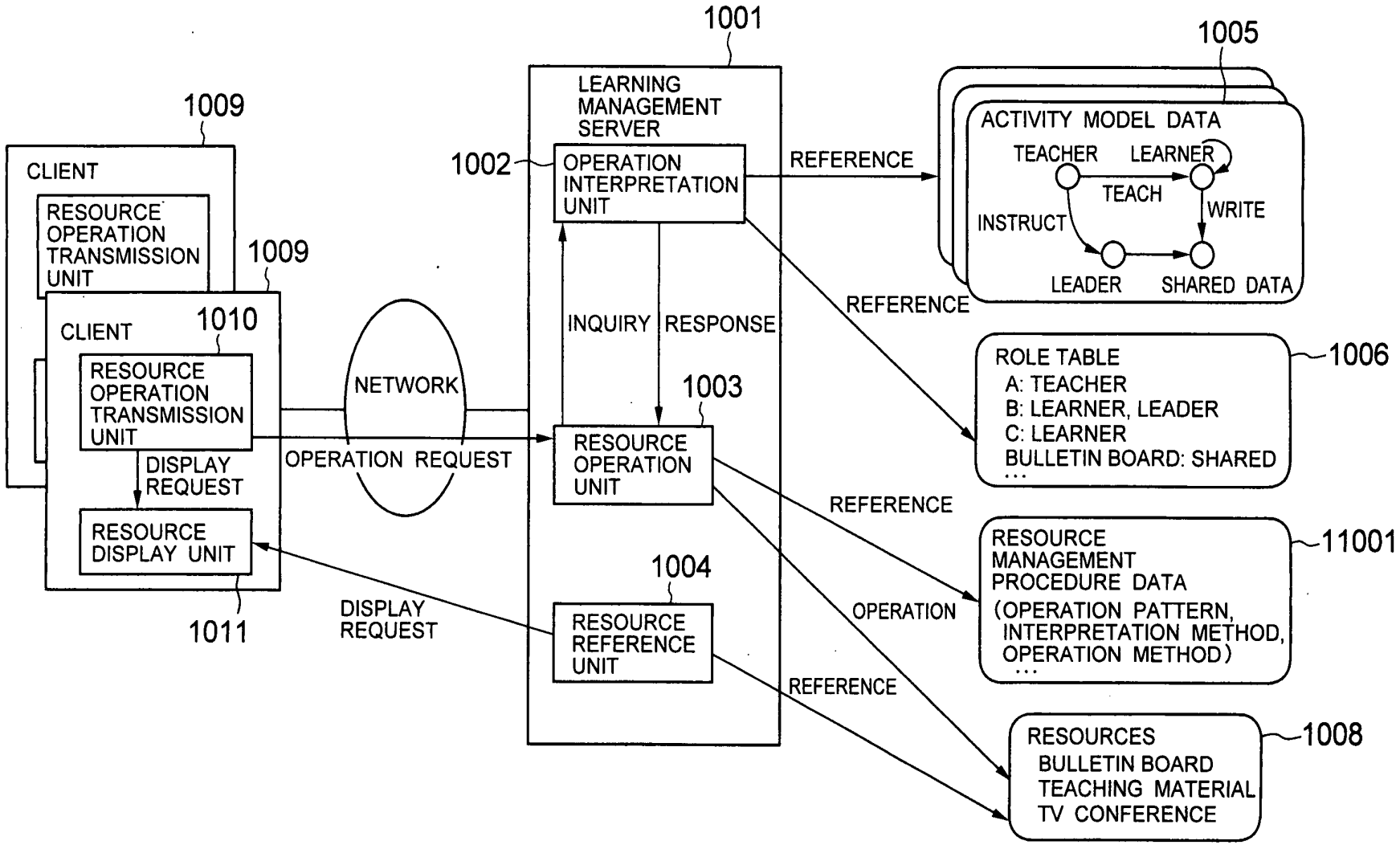

1001
LEARNING MANAGEMENT SERVER
1002
OPERATION INTERPRETATION UNIT
1003
RESOURCE OPERATION UNIT
1004
RESOURCE REFERENCE UNIT
1005
ACTIVITY MODEL DATA
TEACHER
LEARNER
TEACH
WRITE
INSTRUCT
LEADER
SHARED DATA
1006
ROLE TABLE
A: TEACHER
B: LEARNER, LEADER
C: LEARNER
BULLETIN BOARD: SHARED
11001
RESOURCE MANAGEMENT PROCEDURE DATA
(OPERATION PATTERN, INTERPRETATION METHOD, OPERATION METHOD)
1008
RESOURCES
BULLETIN BOARD
TEACHING MATERIAL
TV CONFERENCE
1009
CLIENT
RESOURCE OPERATION TRANSMISSION UNIT
1009
CLIENT
1010
RESOURCE OPERATION TRANSMISSION UNIT
DISPLAY REQUEST
RESOURCE DISPLAY UNIT
1011
NETWORK
OPERATION REQUEST
DISPLAY REQUEST
INQUIRY
RESPONSE
REFERENCE
REFERENCE
REFERENCE
OPERATION
REFERENCE

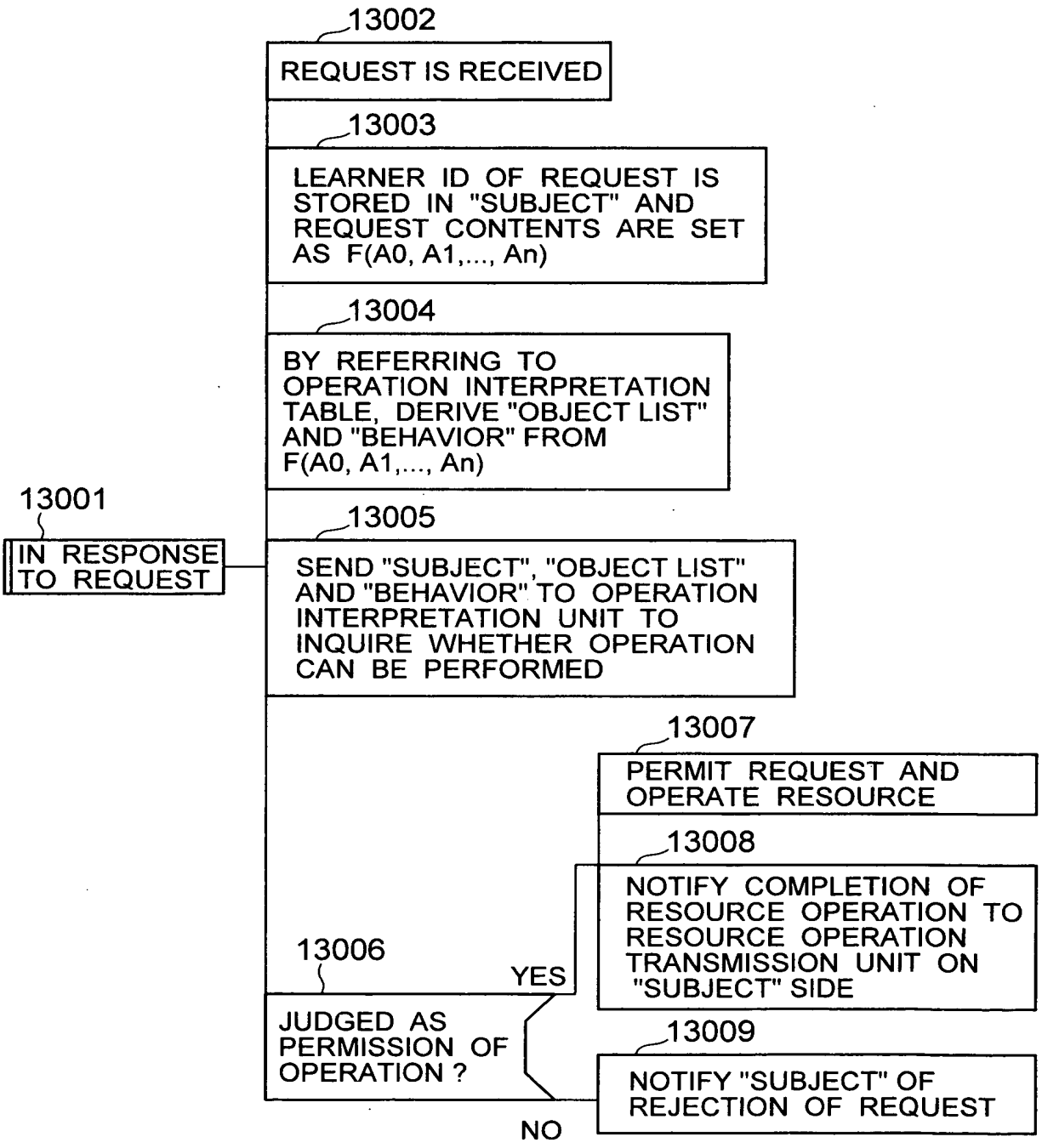
FIG. 12

12001

OPERATION PATTERN	INTERPRETATION METHOD	OPERATION METHOD
F(X0, X1, ···, Xn)	M(X0, X1, ···, Xn)	C(X0, X1, ···, Xn)
⋮	⋮	⋮

APPROVED
EXAMINER

FIG. 13



APPROVED O.G. FIG.
BY: CLASS SUBCLASS
DRAWING

FIG. 14

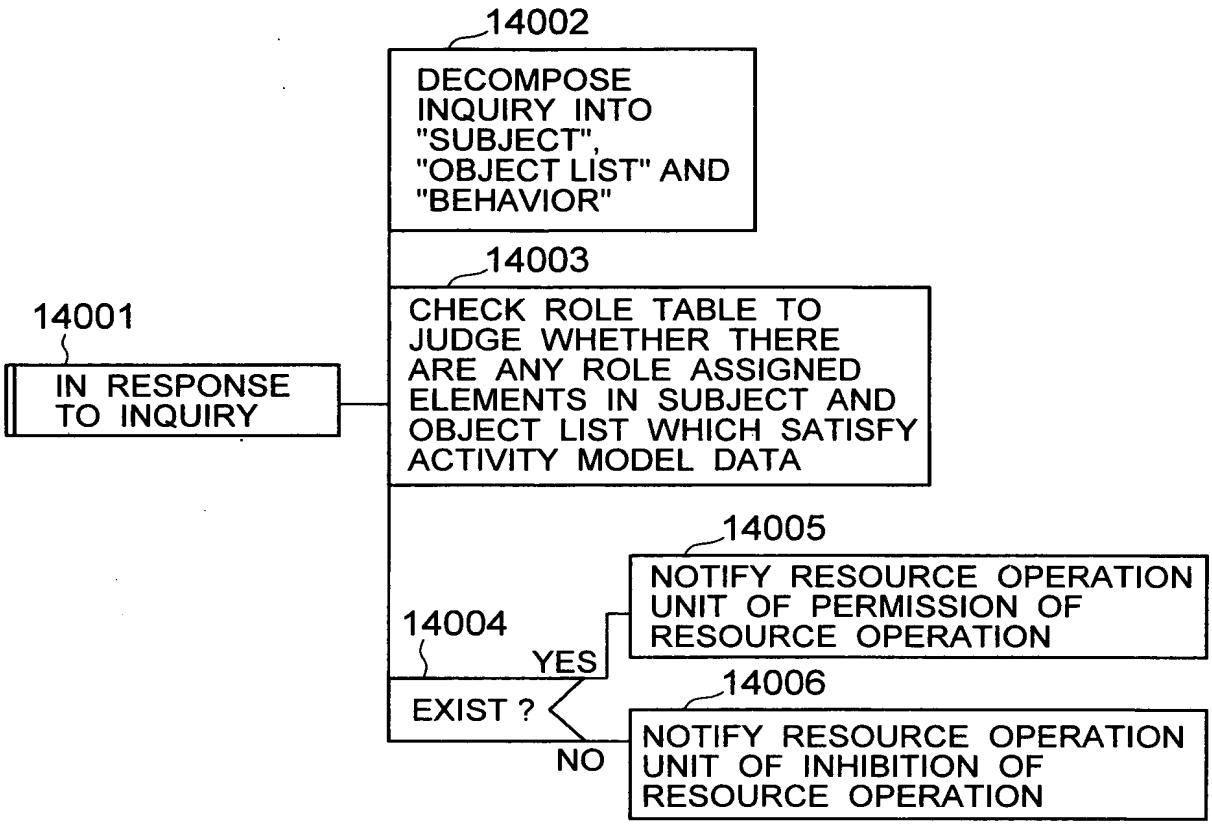
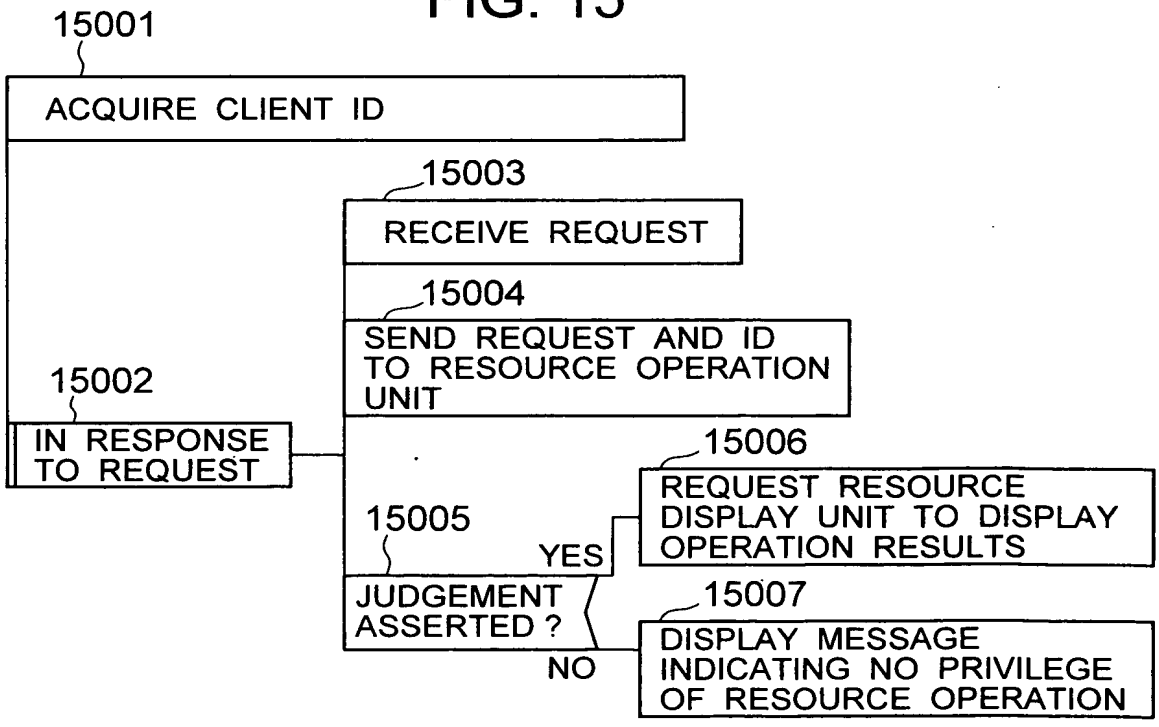


FIG. 15



APPROVED
BY

FIG. 16

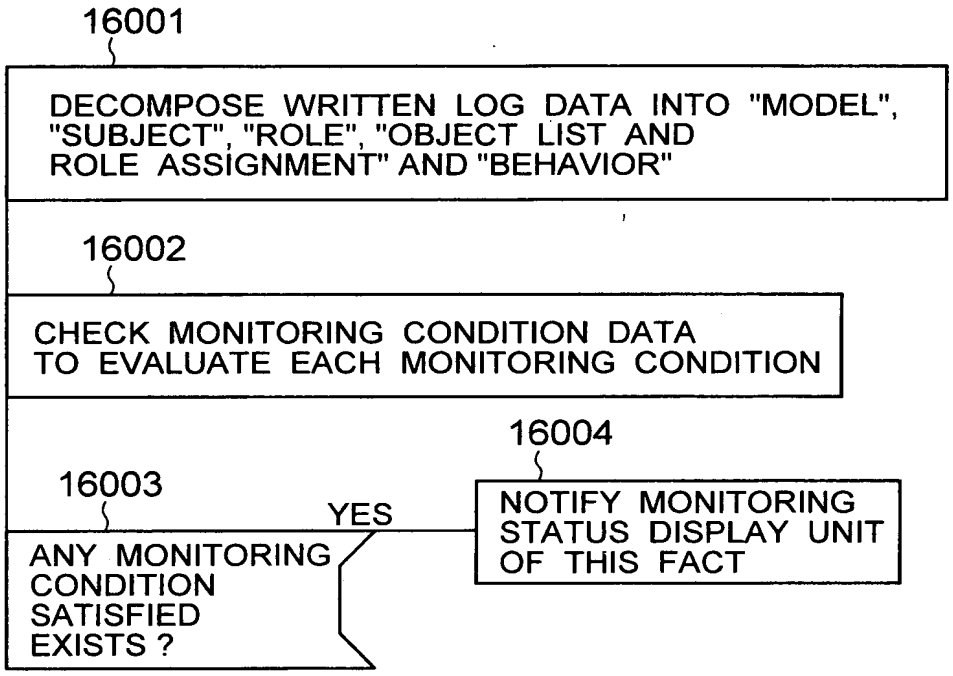
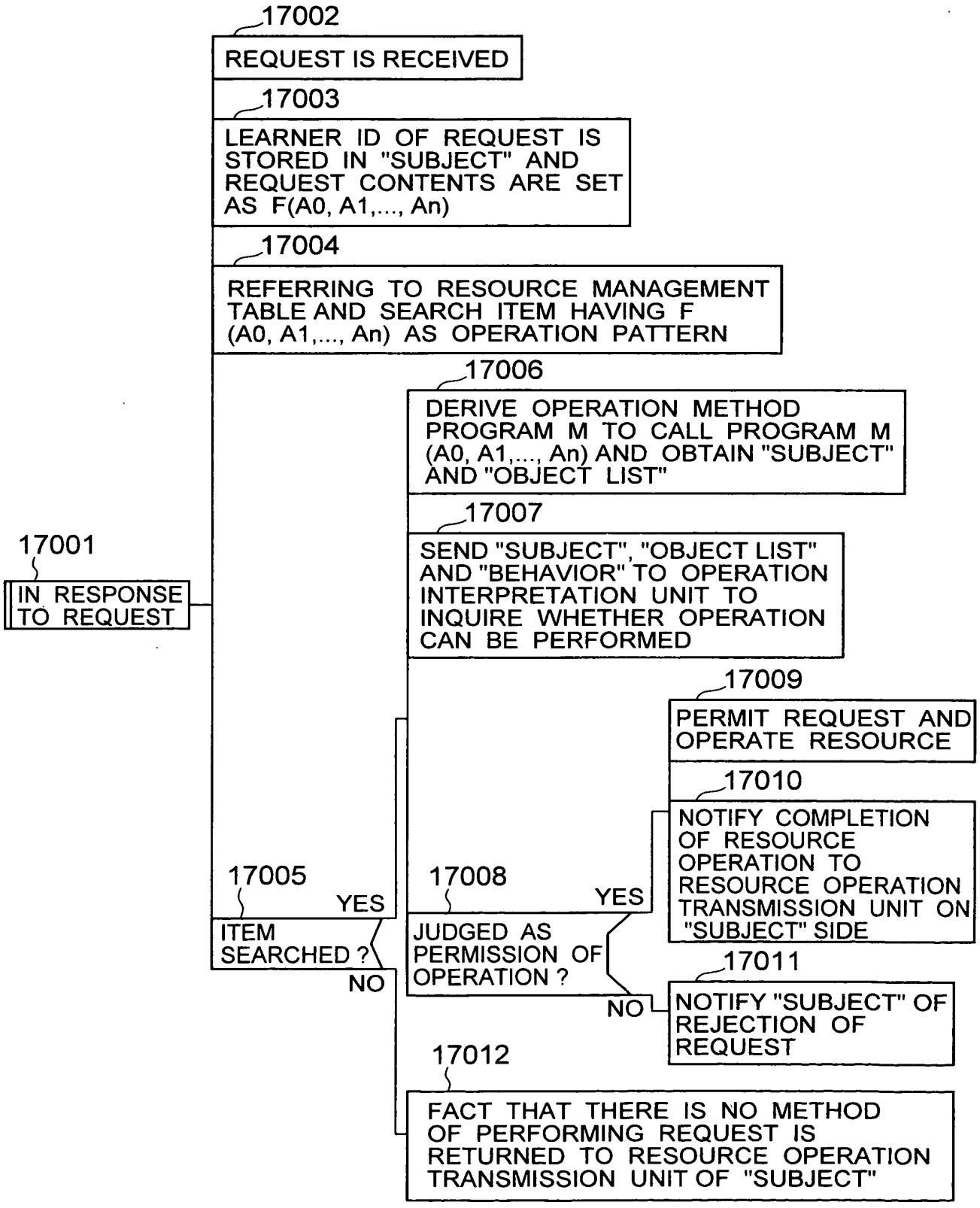


FIG. 17


17001
IN RESPONSE TO REQUEST
17002
REQUEST IS RECEIVED
17003
LEARNER ID OF REQUEST IS STORED IN "SUBJECT" AND REQUEST CONTENTS ARE SET AS F(A0, A1,..., An)
17004
REFERRING TO RESOURCE MANAGEMENT TABLE AND SEARCH ITEM HAVING F (A0, A1,..., An) AS OPERATION PATTERN
17005
ITEM SEARCHED ?
YES
NO
17006
DERIVE OPERATION METHOD PROGRAM M TO CALL PROGRAM M (A0, A1,..., An) AND OBTAIN "SUBJECT" AND "OBJECT LIST"
17007
SEND "SUBJECT", "OBJECT LIST" AND "BEHAVIOR" TO OPERATION INTERPRETATION UNIT TO INQUIRE WHETHER OPERATION CAN BE PERFORMED
17008
JUDGED AS PERMISSION OF OPERATION ?
YES
NO
17009
PERMIT REQUEST AND OPERATE RESOURCE
17010
NOTIFY COMPLETION OF RESOURCE OPERATION TO RESOURCE OPERATION TRANSMISSION UNIT ON "SUBJECT" SIDE
17011
NOTIFY "SUBJECT" OF REJECTION OF REQUEST
17012
FACT THAT THERE IS NO METHOD OF PERFORMING REQUEST IS RETURNED TO RESOURCE OPERATION TRANSMISSION UNIT OF "SUBJECT"